



AN EMERGENCY MONITORING STATION was set up in the Garage, and the above activities kept everyone busy. At left, D. E. Watson has his badge monitored by Bob Rutherford, and B.I.V. Bailey, seated, keeps score. Behind Bailey is W. C. Seymore in contact with emergency headquarters. Mable Butcher stands at the table in front of Bailey . . . and Loren Lawhorn, also seated, reports readings from J. C. Nelson who reads the badge of D. W. Davis. H. S. Lane, a member of the emergency squad, 'body-reads' F. D. Jeffreys. Awaiting counting in line behind Jeffreys are O. J. Howard, Corrine McDaniel, Ovelia Goad and J. C. Parton.



EMERGENCY DIRECTOR CARL FRAZIER directs activities from the emergency center during last week's simulated radiation incident. By short wave radio, Frazier kept in touch with all emergency squads, assembly stations and radiation safety men in the mock incident.

Mock Radiation Incident Simulated Last Week In Y-12

Last Tuesday, September 14, the voice on the intercom stated: "In three minutes there will be a radiation drill in Y-12." This was the only clue that most Y-12ers had for the 'mock incident' to be staged sometime in September. But gears began, setting in action the orderly and quiet evacuation of the buildings where radiation alarm systems are located.

The supposed 'incident' took place in Building 9206, but the other radiation alarms were tripped in the plant, as a test. Each system was activated with a radiation source. The test served two purposes: to see if the alarm system worked adequately with

an audible alarm system; and to test established procedures for building evacuation and assembly station operations.

Evacuation Is Quick

The sirens began three minutes after the alert . . . and employees began gathering at the assembly stations. The hour was 9:30 Tuesday morning. Within one to one and a half-minutes everyone concerned was gathered at his respective assembly station. (One station was estimated to have around a thousand employees.)

Radiation Safety personnel donned their 'space suits' to enter the "contaminated" area. Threshold detectors were gathered

Continued on Page 4

K. T. R. Davies Leads Physics Division Seminar

K. T. R. Davies, Physics Division, will lead the Physics Division Seminar this week. He will speak on "Hartree-Fock Calculations of Finite Nuclei."

The seminar is set for 3:15 p.m., Friday, September 24, in the East Auditorium of ORNL's 4500 building.

C. E. Larson Cites 'Fair Share' In United Fund Drive

The 1965-66 United Fund Appeal for Union Carbide will officially open October 4.

The announcement was made by C. E. Larson, president of Union Carbide Nuclear Division.

In making the announcement, Larson said, "Once again we have been called upon to accept our fair share of responsibility in providing for the needs of the member agencies in the United Fund. This is a responsibility we are proud to share with members of the neighboring communities."

The United Fund in this area is composed of a number of public service, non-profit organizations who derive their operating funds from public donations. Each of them began as a need that previously had been partially or completely unfilled. Enough people had recognized the need to bring the organization into existence.

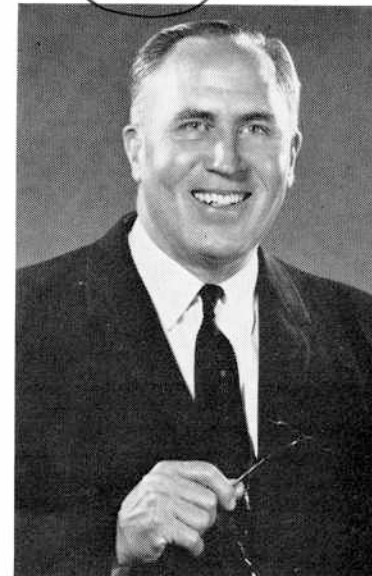
Knox County alone, for instance, has 32 member agencies this year. If each of these agencies had to wage campaigns singly, the public would be continually harassed. The United Fund is an equitable and efficient way of collecting and apportioning money to member agencies.

New Idea In Y-12

A "fair share" plan is a new idea in United Fund campaigns in the Union Carbide plants. This "share" is an arbitrary figure that ranges from community to community. For Union Carbide employees in Oak Ridge, a per capita donation of three-tenths of one percent has been suggested as a goal.

This means about three dollars for every one-thousand dollars of annual income. For the person who earns \$4,000 per year, this would amount to one dollar per month for a year through the payroll deduction plan.

On the basis of Union Carbide's annual Oak Ridge payroll, if



C. E. Larson

every Carbider gave just three-tenths of one percent, the United Fund agencies in Anderson, Knox, Roane, Loudon and Morgan counties would benefit with a staggering total of approximately \$316,000!

Whitson Coordinator

In kicking off this year's United Fund drive, Dr. Larson named Y-12er W. K. Whitson, Development Division, coordinator for the three-plant drive in Oak Ridge. To assist Whitson will be E. A.

Continued on Page 4



UNION CARBIDE'S 1965 UNITED FUND Appeal for Oak Ridge installations begins October 4. This year it will be headed by W. K. Whitson, Y-12, center. He will be assisted by, left to right, L. P. Riordan, Oak Ridge National Laboratory; E. A. Pluhar; Whitson; L. L. Anthony, General Staff; and H. D. Culpepper, Oak Ridge Gaseous Diffusion Plant.

The Bulletin

Published Weekly For The
Y-12 Employees Of
UNION CARBIDE
CORPORATION

UNION
CARBIDE

NUCLEAR DIVISION

JAMES A. YOUNG Editor

Member



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Industrial
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ORCMA Begins Membership Drive

The Oak Ridge Civic Music Association opens its 1965-66 membership drive this week. The Birmingham Symphony Orchestra, under the baton of Amerigo Marino, will open the season in Oak Ridge October 30. Agi Jambor, Hungarian pianist, will perform January 15; and Karen Duke, folk singer, March 12. The Oak Ridge Symphony will play Mozart and Schumann for its opening concert November 13. Another concert is set January 29; with two concerts by the Oak Ridge Chorus, and a joint concert by the Orchestra and Chorus on April 23 to round out the season.

Guests artists in the Chamber Series include the Quartetto Brahms, the Nashville Quartet, and the Duo Di Roma. In addition several coffee concerts featuring local artists and children's concerts are planned.

Information on season tickets may be obtained from Mrs. George Chapman, 114 Canterbury Road, telephone 483-3445; or Miss Marion Garber, 157 N. Seneca Road, telephone 483-1161, both in Oak Ridge.

Health Physicists Meeting At ORINS

The East Tennessee Chapter of the Health Physics Society will meet next Tuesday, September 28, at 7:30 p.m., at the Medical Conference Room of the Oak Ridge Institute of Nuclear Studies on East Vance Road.

Highlight of this regular meeting will be the attendance of Bill Graham, chief radiological physicist who is the assistant to the director of Radiological Health Service of the Tennessee Department of Public Health.

Graham will speak on the subject of "States' Atomic Energy Program." This is a timely subject since the State assumed control of regulating the use of radioactive materials on September 1. Tennessee is the eleventh state to work out an agreement with the Atomic Energy Commission whereby the state is the regulatory agency rather than the Commission.

Graham will be prepared to answer questions concerning Tennessee's programs and regulations.

President G. F. Stone urges all members to attend and pick up their copy of the chapter's first handbook and directory which J. M. Davis and C. E. Haynes have prepared.

The meeting is open to the public and those whose work is related to this field are extended a special invitation to attend.

Ground was broken for the Y-12 Plant on February 1, 1943.

Y-12's Merwyn Sanders Gives Invited Talk To Baltimore-Washington H. P. Society

Air monitoring for toxic and radioactive particulates was the subject of a paper recently given in Washington by Merwyn Sanders, Radiation Safety Department. The complete title of the paper was: "Diagnostic Air Monitoring and Related Sampling Equipment for Radioactive and Toxic Particulates."



Merwyn Sanders



Congratulations to more Y-12ers who are celebrating September anniversaries with Union Carbide Corporation.

15 YEARS

David R. Baldwin Jr., Maintenance Administrative Services, September 22.

James R. Wells, Alpha Five Machine Shop, September 25.

Wiley A. Herrell, General Expediting and Auxiliary Services, September 25.

Foraker Lambdin Jr., Chemical Engineering Development, September 25.

Claude R. McCabe, H-1 Foundry, September 26.

Nevil F. Bush, Buildings, Grounds and Maintenance Shops, September 26.

William L. Griffith, Process Analysis, September 27.

William A. Coker, ORNL Chemical Services, September 27.

Ralph Lawson, 9766 Machine Shop, September 27.

John H. Boyd Jr., Instrument Engineering, September 28.

Frank H. Pitzer, Alpha Five Machine Shop, September 28.

10 YEARS

William W. Ivey, General Weld Shop, September 26.

Mildred K. Lister, Tool Engineering, September 26.

Young Thespians Paged For Saturday Tryouts

It's tryout time for the youngsters again and adults are included this year as readings are scheduled for the Junior Playhouse. The December production, entitled "The Adventures of Harlequin," begins rehearsals soon.

Tryouts begin at 10:30 a.m. Saturday, September 25, at the Playhouse. The cast calls for seven boys and girls between 11 and 15 and seven adults from 18 up. Previous drama experience is not required and tryouts are open to any interested child or adult in this area.

Boys and girls 11 and older who wish to learn about play production may sign up for the School of Stagecraft which covers such areas as costumes, makeup, props, scenery, painting, lighting and sound. For further information, contact Mrs. Robert Silva, Oak Ridge telephone 483-9641.

The practical and useful techniques developed for effective air monitoring, discussed by Sanders, included the use of IBM aperture cards with a filter medium insert, a variety of sampler activating devices which integrates sample and activity, for specific diagnostic air monitoring, and a simplified sampling equipment and field analysis for specific radioactive particulates where fast results are needed.

The invited paper was given before the Baltimore-Washington Chapter of the Health Physics Society, Saturday, September 18. The Fall Symposium was held at the National Bureau of Standards, Gaithersburg, Maryland, a suburb of the nation's capitol.

The techniques discussed offer several advantages. They minimize in-field manpower effort; reduce laboratory costs and sample analysis time; provide a technique for fast results in times of emergency where radioactive particulate is the contaminant; highlight sources of air-borne activity in relationship to equipment and personnel activities; provide a means of record and data analysis by machine processing; and offer a universal standardized sample collection, and data processing of large numbers of samples completely automatically.

Sanders, who lives at 1429 Audena Lane, Knoxville, is a graduate of Tennessee Polytechnic University, Cookeville. He has also done graduate work at the University of Tennessee. He came to Y-12 September 4, 1951.

Few men lose their temper with a pretty little woman, or an ugly big man.



"Well, so much for that Y-12 crowd!"

E, F, G, H & J Shift Fishermen Plan Rodeo Saturday On Norris

With the tinge of Autumn in the air, E, F, G, H and J Shifters have decided it's time for a fishing tournament. This time, it will concentrate on the Smallmouth Bass, that elusive species of fish that goes for spring lizards, artificial lures, worms, etc.

The scene is set for Saturday, September 25, at the Stardust Boat Dock on Norris Lake. There will be 11 awards for smallmouths

... and, of course, a dock prize to be selected. Prizes for fish, in respective order, are an electric drill, umbrella tent, sleeping bag, Coleman gasoline lantern, Coleman camp stove, spinning rod, trolling rod, boat seat, fisherman's barometer, tackle box and a picnic jug.

All Y-12ers, including their sons, daughters and wives are cordially invited to attend the fall rodeo. The hours begin at 6 a.m. and continue through 6 p.m.

So, come on out, you smallmouth fisherman!

Research Society Names New 1965-66 Officers

Francois Kertesz, outgoing president of the Oak Ridge Branch of the Scientific Research Society of America announced the names of the new officers for the 1965-66 season.

D. F. Smith will serve as president; J. H. Crawford, vice president; Mary Jane Cook, secretary; D. G. Gosslee, treasurer. Admissions committee will consist of W. A. Arnold, J. M. Googin, and H. L. Weissberg. Smith and Weissberg are at the Oak Ridge Gaseous Diffusion Plant; Googin is a Y-12er, and the other officers are at the Oak Ridge National Laboratory.

Heating Equipment Causes Many Fires

Dirty, defective heating equipment causes the deadliest dwelling fires, taking about 2,000 lives annually.

Check and repair equipment in your home now, before the season's first cold wave. Above all, be sure that any fixed or portable room heaters are in first-class operating condition. Dirty, defective ones can spell danger and disaster.

Remember: it's good to be warm, but essential to be safe!



SPHERES FOR SPACE—Y-12 has assisted in the fabrication of 11-inch diameter spheres for use by the U. S. Air Force in inertial guidance systems. The components were sent to the Massachusetts Institute of Technology, Cambridge, designers of the system. Contributions of Y-12 to the project included the nickel plating—forty thousands of an inch thick—and the final contouring and machining of the flanged hemispheres. The requirements for these hemispheres are considered as pushing the state of the art both in planing and machining. G-3 Processing's R. R. Williams and Frank H. Broome are seen above with one of the spheres.

Isotopes Reactor Team Takes Softball's Three-Plant Single Elimination Contest

ORNL's Isotopes Reactor continued their softball slow pitch superiority by taking the Y-12-ORNL single elimination tournament. Victory came via a 12-9 win over their "first cousin" ORNL Mets in the final game. For the Isotopes, Moore and Ewing had doubles, Tidwell tripled, and Herman Thomas homered. For the Mets, Laughlin and Tom Tuck had doubles. The Isotopes scored three, five, and four runs in the first three innings and this lead held despite the Mets late surge. The Isotopes will receive Tournament Champion trophies, and the ORNL Mets will be awarded the runner-up trophies.

Other tournament games during last week's play found the Isotopes Reactor taking a semi-final victory over their "double first cousins" Plant and Equipment by a close 6-5 score. The Isotopes went into the top of the seventh with a two run lead, two outs, and appeared to have the game all wrapped up. P&E exploded for two runs to tie things up. The Isotopes then made the lead run in the bottom of the seventh to go into the finals. Again, Thomas homered for the Isotopes while Dunn duplicated for P&E. Another good close semi-final game found the ORNL Mets taking the K-25 Mets by a score of 7-6 which put the ORNL Mets into the finals. For the ORNLers Henry Tuck and Stone had doubles, Tom Tuck and Tuttle tripled, and Stone homered, while Martin, Woodfin, and Roach doubled for the K-25'ers.

Two games were played on Tuesday night when Y-12's Eagles (the only Y-12 team remaining in the tournament) lost a close one to the K-25 Mets that went the full seven innings by a score of 5-4. Evans doubled, Smith tripled, and Medlin homered for the Eagles. "Big" Bob Henderson's homer with one on in the bottom of the seven clinched the victory for K-25's Mets. In the other game played on Tuesday, the ORNL Mets eliminated Biology

by 11-6. While Biology had homers from Pearsons, Hatmaker, and Hardin, the Mets hamered away with shorter hits as their only homer came from Stonecipher.

Monday night's games found the K-25 Instruments eliminated by ORNL's Biology 12-7, the Isotopes Reactor took the ORNL Permits to the cleaners by a 10-4 victory and Plant and Equipment took ORNL's Permits "lopsidedly" by 21-0.

The remaining softball to be played is a three way tie for second place in league play. This play is scheduled for tomorrow night (Thursday) at Midtown No. 1 Park, when Y-12's Eagles meet ORNL Mets at 6:30 p.m. and the winner meets ORNL's Plant and Equipment at 8:00 p.m. — the winner emerging as league runner-up.

C Bowlers Fire Opening Rounds

Another Y-12 bowling league hit the hardwoods last week as the C League strung its 12 teams across the alleys. Hitting hard early in the season, the Rounders took three points from the Rollmasters, the Parbusters pared that many from the Badgers, the Fireballs fired three past the Rodders, and the Invalids invalidated the Big Five for three. The Hi Lifers and the Shud-A-Beens shared two each.

J. C. Bryan, Rounders, rolled high singles, taking a scratch game of 222, and a handicap score of 247. Bill Stephens, Sunflowers, registered a 576 series of scratch count, and W. C. Smith, Rodders, had a 631 handicap series.

The Sunflowers swept the boards clean, rolling singles of 900 scratch, 1017 handicap; series of 2499 scratch and 2850 handicap.

League standings follow:

| Team | W | L |
|--------------|---|---|
| Rounders | 3 | 1 |
| Parbusters | 3 | 1 |
| Fireballs | 3 | 1 |
| Invalids | 3 | 1 |
| Hi Lifers | 2 | 2 |
| Shud-A-Beens | 2 | 2 |
| Big Five | 1 | 3 |
| Rodders | 1 | 3 |
| Badgers | 1 | 3 |
| Rollmasters | 1 | 3 |
| Sunflowers | - | - |
| Strikers | - | - |

Sighting-In Day Set Saturday

The Oak Ridge Sportsman's Association is holding a sighting-in day for all hunters in this area Saturday, September 25. Club members will be on hand from 1 p.m. until dark to give technical assistance in sight adjustment, reloading and minor gun repairs. The club is offering the opportunity as a public service to hunters as part of a nation-wide program conducted by the National Rifle Association. Hundreds of NRA affiliated clubs throughout the country are taking part in this program.

A correctly sighted-in rifle or shotgun is an important step to safe and accurate shooting and increases the percentage of kills, says Arvin S. Quist, president of the Rifle Club of the ORSA. Familiarization firing and knowledge of the point of impact of the gun being used adds enjoyment and safety to the fine sport of hunting.

It is important that the hunter bring a minimum of five rounds of ammunition of the type which he intends to use for hunting for each rifle or shotgun. Hunters are requested to have all firearms unloaded and the actions open when entering the range area. To help defray expenses, a fee of \$1 will be charged.

Hi-Power Rifle League Ends Race

The final shoot in the All Carbide High Powered Rifle League turned out to be the closest competition yet. Top honors in both scratch and handicap firing went to R. J. Spurling, with a 244-7v total scratch score, and 294.260 handicap.

Second place also went to a Y-12er as C. G. Brewster hit a 243-21v score just a few V's ahead of G. A. Reimann, ORNL, who usually takes top honors. Fourth was another ORNLite, H. C. Hoy, just one point down with a 242-16v score.

In the 200 yard standing position A. A. Abbatiello, ORNL, was tops with a 49-1v score.

Brewster was high in the 200 yard sitting rapid fire with 50-3v. Spurling took the 300 yard prone rapid fire with a score of 50-3v.

Reimann came in on the 600 yard long range match with a 100-9v total. The first time this year Reimann has scored 100 on the long range match.

Y-12 scores were:

| Team | Scratch | H'Cap |
|----------------|---------|---------|
| C. G. Brewster | 243-21 | 293.653 |
| W. T. Galyon | 182-2 | 288.080 |
| J. L. Huff | 237-14 | 288.408 |
| B. Searles | 236-10 | 291.965 |
| R. J. Spurling | 244-17 | 294.260 |



TURN THE TIGERS LOOSE on the alleys in the Classic League, and you have the above bowlers. Kneeling are, from left, Elbert Scott and Lynn Cabe. Standing are Harold Perdue, Bill Freels and Captain Charlie Gillihan.

Early Classic Lead Goes To Bumpers

The Y-12 Classic League completed its third week of action Thursday night and found three teams taking four point victories. The Bumpers "goose-egged" the Cubs, the Swingsters swung four from the Smelters, and the Splinters shut out the Has Beens. Posting three point wins were Rippers over the Rebels, the Playboys over the Tigers, and the Markers over the Screwballs. Splitting the points two each were the Eightballs, Wasps, All Stars and Wolves.

The Bumpers hold the lead while the Eightballs and Swingsters are tied for second. Tied for third place are the Wasps and Rippers. Next, the Has Beens, All Stars, and Splinters are tied for sixth.

Individual scoring honors went to D. W. (Bill) Hackett of the All Stars with a 231 scratch single. Ken Valentine, Playboys, took handicap single honors with 266. The individual scratch series found J. E. Morgan, Swingsters, with a 575, and Sam Bishop, Eightballs, with a 652 handicap series. The All Stars with a 906 scratch and 1043 handicap took team single honors. Team series honors went to the Bumpers with a 2583 scratch and 2954 handicap.

League standings follow:

| Team | W | L |
|------------|----|---|
| Bumpers | 11 | 1 |
| Eightballs | 8 | 4 |
| Swingsters | 8 | 4 |
| Wasps | 7 | 5 |
| Rippers | 7 | 5 |
| Has Beens | 6 | 6 |
| All Stars | 6 | 6 |
| Splinters | 6 | 6 |
| Smelters | 5 | 7 |
| Rebels | 5 | 7 |
| Screwballs | 5 | 7 |
| Tigers | 5 | 7 |
| Wolves | 5 | 7 |
| Cubs | 4 | 8 |
| Playboys | 4 | 8 |
| Markers | 4 | 8 |

VICE VERSA

This is the only country in the world where they lock the jury up at night and let the accused go home.

ORNL's Henry Tuck Wins Golf Honors

South-paw golfer Henry Tuck, ORNL, with a five-over-par score of 77 took honors in the All-Carbide Tournament, September 18, 19. The 208-man contest was held on the Melton Hill Golf Course Saturday and Sunday. A total of 78 Y-12ers participated.

Bill Maddux followed Tuck's score with 78, to take low score for Y-12ers. In scratching firing it was ORNLites R. L. Caldwell, 79; H. C. Lannon and D. E. Littleton, Y-12, with 80; and J. D. Collins, 82.

Handicap honors went to Dave Laughlin, ORNL, 71; Bruce Isham, ORNL, 72; Joe Pryson, Y-12, 72; V. J. Meese, 72; Gerry Roberts, Y-12, 72; and Tom Tuck, 73. The hole-in-one contest in Flight One went to Bill Maddux, V. A. Miracle and Bill Grubb. K. C. Lannon, V. A. Miracle and Lewis Atherton took the back hole honors.

SECOND DIVISION

Bob Leonard, ORNL, took scratch honors in the second division, tying with Y-12er Hugh Beeson, each with 85. John Cornelius, ORNL, fired an 86; Bill Dean, Y-12; R. J. Mustin, Y-12, V. A. Miracle and W. A. Plunkett, all fired a 90 scratch. Handicap winners were Jay Holzknecht, Y-12, and Gary Coleman, ORNL, each with 72. They were followed by H. W. Phillips, Helen Cook and Jim Chapman, each with 76. J. R. Milligan, Y-12, tallied a 78.

Hole-in-one honors on the front nine went to Gary Coleman, Y-12er C. W. Nelson, and John Cornelius. On the back nine it was Y-12er Jack Gamble, T. D. Owings, and R. J. Mustin, Y-12.

THIRD DIVISION

ORGDP'er Bob Shilling took third flight honors with an 83 score. Y-12er R. E. Worley tied with E. L. Olson with 90. Y-12er C. E. Carter and Charles Dial fired 91, along with Herman Douglas, M. P. Davis and R. S. Edwards.

Handicap lows were scored by A. R. Armistead, Y-12er J. H. Fielden, Dick Dehoney and Jim Collins, all with 73. Y-12er H. E. Alvey and Paul Haile had 74 scores.

Front nine hole-in-one honors were gained by M. P. Davis, Bob Shilling and E. L. Olson.

Back nine 'close ones' were taken by Hank Stanton, who came within four feet, three inches of hole number 8 . . . to score the closest drive of the tournament. Herman Douglas and H. A. Harshaw rounded out winners on the back nine.

FOURTH FLIGHT

Jerry Raper, K-25, scored an 87 to take fourth division honors in scratch count. He was followed by C. A. Brandon, 92; Joe Crunk, 96; L. C. Patrick, 98; Mike Bradshaw, 96; and Gaylord King, 100.

Handicap lows went to J. S. Oakwood, Y-12, with a 66. Ray McHenry, tallied a 68; O. D. Matlock, 73; E. V. Hawk, Y-12, 74; Jim Gibson, 75; and W. C. Caldwell, 76.

X-10ers took all front-nine honors in the hole-in-one contest . . . as R. V. McCord, Bert Orr and C. Brandon came close. Back nine near ones were scored by L. R. Beach, Y-12; Gaylord King and R. E. McHenry.

Thus plant golfers lowered the curtain on play for 1965.

FIRE PREVENTION WEEK

October 3-9 has been set aside as Fire Prevention Week. Special activities in the plant will point up the necessity of removing fire hazards before they can cause a fire.

Recreation



calendar

Saturday, September 25

FISHING RODEO: 6 a.m. Stardust Boat Dock, Norris. Smallmouth Bass. E, F, G, H and J Shifts.

Monday, September 27

TENNIS LEAGUE: By arrangement as per schedule.

PISTOL LEAGUE: 7:30 p.m., Anderson County Gun Club.

BOWLING: C League, 5:45 p.m., Ark Lanes.

BOWLING: Bush League, 8 p.m., Ark Lanes.

Tuesday, September 28

PHYSICAL FITNESS: 7:30 p.m., Oak Ridge High School Gymnasium.

Wednesday, September 29

BOWLING: Mixed League, 8 p.m., Ark Lanes.

Thursday, September 30

BOWLING: Classic League, 5:45 p.m., Ark Lanes.

City Horseshoe Race Welcomes Plant Men

Any plant horseshoe pitcher interested in a City Wide Tournament may qualify this week for the competition. The 100 throws, qualifying the player may be taken any time this week through Friday, September 24, at 6:30 p.m. at the City Courts.

All plant sportsmen are welcomed to participate in the tournament . . . and teams from the recently completed ORNL-Y-12 league are especially welcomed.



UNION CARBIDE CORPORATION NUCLEAR DIVISION

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Permit No. 71



Ride wanted from 142 Parsons Road, Oak Ridge, to West Portal, straight day. Ronnie Stenglein, plant phone 3-7367, home phone Oak Ridge 483-7166.

Ride wanted from 136 Vandalia, Oak Ridge, to North Portal, straight day. G. R. Walls, plant phone 3-5381, home phone Oak Ridge 483-1561.

Will join car pool from vicinity of Knox Cedar Blue Road, Knoxville, to North or Central Portal, straight day. Ward Bandy, plant phone 3-5959, home phone Knoxville 588-6933.

Car pool members wanted from California area, between East Village and Georgia, Oak Ridge, to North Portal, straight day. Eugene Waters, plant phone 3-7614, home phone Oak Ridge 483-9698.

English Changes To Meet Needs

"The English language is not a static thing; it changes to reflect the usage of the people. Some words drop out of common usage and become archaic; others are created to give names to the new procedures and the new discoveries of our age. Modern science and technology coin new words constantly.

"Not only are new words born—the old familiar ones are subject to change. Remember when **percent** was two words? And nearly everyone wrote **catalogue** instead of **catalog**. You always found a hyphen after **non** (**non-profit**). **Cooperate** and **coordinate** have now lost their hyphens, too (but it's still **co-op**).

Changes such as these take place in spoken languages, but English-speaking people who are concerned with modern, proper usage are more fortunate than most. American and English lexicographers are constantly revising, adding, deleting—and compiling the results in new, up-to-date dictionaries. (The Italians are not so lucky; their latest dictionary—based on Dante's *Inferno*—was published in 1811!) . . . "TODAY'S SECRETARY."

SAFETY SCOREBOARD

The Y-12 Plant Has
Operated
68 Days Or
1,793,000 Man-Hours
(Unofficial Estimate)
Through September 19
Without A Disabling
Injury
For Daily Report
On Accident-Free Hours
Phone 3-7755

Mixed Bowlers Start '65 Play

Men and women in the Mixed Bowling League fired their initial rounds last week. Taking sweeps of four points were the Alley Cats over the Better Halves and the Goofers over the Blue Angels.

The Subs snatched three from the Twisters, and the Chumps captured three from the Mustangs.

Taking high scratch honors on the male side was Hubert Tripp, Goofers, rolling a single of 203, and a series of 530. Virginia Newby, Goofers, posted a 164 single game; and Nancy Garrison, Blue Angels, tallied with a 431 series. (No handicap bowling was captured for the initial evening.) The Goofers rolled singles of 621, series of 1812.

| Team | W | L |
|---------------|---|---|
| Alley Cats | 4 | 0 |
| Goofers | 4 | 0 |
| Subs | 3 | 1 |
| Chumps | 3 | 1 |
| Twisters | 1 | 3 |
| Mustangs | 1 | 3 |
| Blue Angels | 0 | 4 |
| Better Halves | 0 | 4 |

'Days Between' Tryouts Monday

Tryouts for a brand new play written by a famous playwright will be held at the Oak Ridge Playhouse next Monday, September 27, at 7:30 p.m. The play is an exciting drama, "The Days Between," by Robert Anderson. The cast calls for three men from 26 up; two women, one in her thirties and one in her fifties; and one 10-year old boy. Tryouts are open to the public and everyone is invited to attend, regardless of previous dramatic experience.

The Playhouse joins 50 other community and educational theatres throughout the country who will premiere "The Days Between" under a new plan which has been formed to aid both theatres and playwrights, the former because of the need for many good plays each season and the later because of the growing impossibility of getting plays produced in New York. "The Days Between" was selected from a large group of submitted scripts by a panel of three of the best theatre men in the country and has received the endorsement of many of the top critics who saw the pilot production in Dallas, Texas.

United Fund

Continued from Page 1
Pluhar, Materials and Services Division Superintendent, Y-12; L. P. Riordan, Oak Ridge National Laboratory; H. D. Culpepper, Oak Ridge Gaseous Diffusion Plant; and L. L. Anthony, general staff.

Whitson, in preliminary plans for Y-12's part in the three-plant drive, said this year's appeal will see increased emphasis on full participation by Union Carbide personnel. "For the first time in Fund history, we are setting a 'fair share' quota. We also fore-

Mock Incident

Continued from Page 1
from the areas to measure dosage of exposures in the various areas. These detectors were taken to Radiation Safety's trailer complex for almost instantaneous readings. Actually, the space suits, a bright colored orange, are made of a plastic material impervious to contamination either from toxic or radioactive materials. The surveyor also wears a mask which filters the air he breathes, assuring him a pure air supply.

On-Site Surveyors

On-the-spot radiation monitors were carried to the "scene" also. These monitors are called high range "Cutie-Pies."

The monitor men wore special badges identifying them as on-site surveyors. They also carried dosimeters of the high and low range level.

A selected group of employees from 9206 was chosen and taken to the Emergency Monitoring Station. (In case of a "real" incident, all employees would be taken there for readings.) Here specialized equipment, clothing, meters, and other equipment are manned by the emergency squads, safety and radiation safety personnel.

PSS In Charge

Communications were maintained at all times during the test from the Emergency Headquarters, Building 9706-2. Carl W. Frazier, shift superintendent for that day, was the Emergency Director. He was assisted by J. A. McLain, also of the shift superintendents division, Dave Turner, Fire Department, and C. M. Simcox, shift maintenance foreman.

Emergency squads from the various areas took command of the alerted personnel at the assembly stations, then reported to headquarters. The radio networks and the plant PA system were utilized to their fullest extent.

After the drill was completed, the radiation monitors were reset and the sirens silenced, and the radiation systems were restored to their normal service.

Return To Work

The employees returned to their work stations in much the same fashion as they left after the all-clear which was declared by the Emergency Director.

"The entire operation was a success," Frazier stated. "The employees in the affected areas left work in an orderly fashion. And the knowledge we gained in the drill is most helpful."

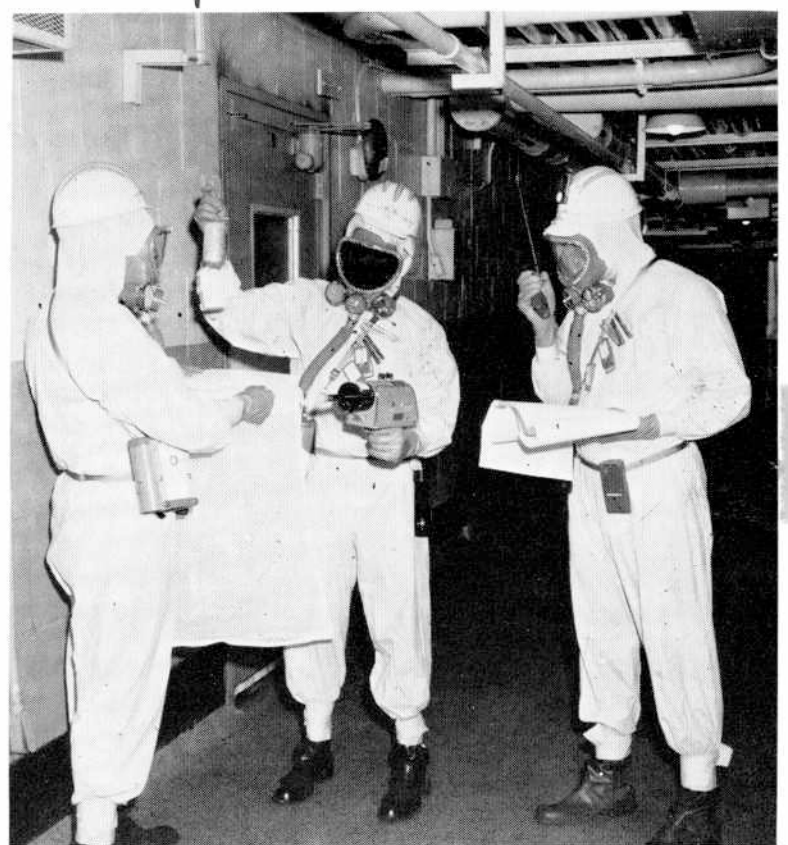
The mock incident was the first time in the plant's history that a test evacuation has been made. It proved two vital factors: THE SIRENS DO SOUND SO THAT ALL AFFECTED CAN HEAR, and AN ORDERLY EVACUATION OF THE PLANT CAN BE ACCOMPLISHED, clearing employees from the area of danger.

FORTY SHORT YEARS

Forty years ago plastics were just emerging from their celluloid-collared days, and the plastics business was too small to even be called an industry. Today the manufacture of plastics materials is a \$2 and one-half billion industry.

see fuller participation by all Union Carbide employees in drive efforts, as well as contributions," Whitson iterated.

Divisional representatives are being appointed now in Y-12 by E. A. Pluhar. The organization of the appeal in all three Union Carbide plants is being made early, so that the opening of the drive the first week in October will be of significance to all employees.



GATHERING THRESHOLD DETECTORS in 9206 where the 'incident' supposedly took place are Sewell Brown, Bill Mee and Merwyn Sanders. Their impervious suits and headgear make them look as candidates for space travel. The bright orange uniforms they wear keeps contamination from their bodies. The speaker type gas mask also filters the air they breathe. Testing the speaker on the headgear, one of the 'astronauts' remarked, "It's hot in here."



PATIENTS ASSEMBLE at Medical after being 'read' at the Monitoring Station. Carl Brewster, Medical, takes a blood sample from Mable Butcher and Charlene Smith looks on. Radiation Safety men Wade Roberts and Jim Morehead read H. S. Lane prior to his giving a blood sample.

Analytical Group To Hear UT Prof

Gleb Mamantov, assistant professor of chemistry at the University of Tennessee, will speak before the Analytical Group this week. The meeting is set for tomorrow, Thursday, September 23, at 8 p.m., at the Alexander Motor Inn, Oak Ridge.

His topic will be "Electroanalytical Chemistry in Molten Salt Solvents." The experimental techniques employed and the use of such electroanalytical methods as voltammetry, chronopotentiometry and coulometry for the characterization of electroactive species present in melts will be discussed.

Mamantov was born in Karsava, Latvia, and finished high school in the Displaced Persons Camp at Kleinkotz, Germany. He received his BS, MS and PhD

from Louisiana State University. His graduate work was done in the area of electrochemistry.

A member of the American Chemical Society, American Association for the Advancement of Science, American Association of University Professors, Sigma Xi, Phi Lambda Upsilon, Alpha Chi Sigma, Omicron Delta Kappa, Pi Mu Epsilon and Lambda Chi Alpha, Mamantov has been an assistant professor of chemistry at UT since 1961. In 1962 and 1963 he was a summer research participant at ORNL; and consults with the Laboratory at present.

AMAZING AMAZON

The largest river basin in the world is that drained by the 3,900 mile Amazon River. It covers 2,750,000 square miles and has more than 15,000 tributaries.

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